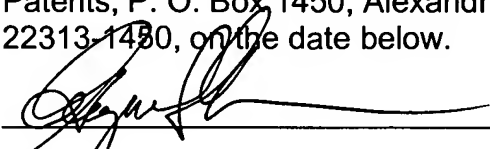




2817  
TFW

Patent  
PD-202131  
Customer No. 020991

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of: Ernest C. Chen et al. : I hereby certify that this correspondence is  
: being deposited with the United States Postal  
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Serial No.: 10/532,509 : mail in an envelope addressed to:  
Filed: October 17, 2003 :  
: Mail Stop Amendment, Commissioner for  
For: ESTIMATING THE OPERATING : Patents, P. O. Box 1450, Alexandria, VA  
POINT ON A NON-LINEAR : 22313-1450, on the date below.  
TRAVELING WAVE TUBE :  
AMPLIFIER :  
:   
: Georgann S. Grunebach  
: Typed or printed name of person signing certificate  
Group Art Unit: 2817 :  
Examiner: Mottola, Steven J. : Date: March 13, 2006

**INFORMATION DISCLOSURE STATEMENT**

Mail Stop Amendment  
Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

The references cited on the enclosed form PTO/SB/08A may be relevant or material to the examination of the above-identified patent application and are, therefore, submitted in compliance with the duty of disclosure defined in 37 CFR 1.56. It is respectfully requested that the references be considered and made of record in the application identified above.

This statement should be considered because it is being submitted before the mailing of a first Office action on the merits under 37 C.F.R. §1.97(b)(3). Accordingly, it is submitted that no fee is due in this matter.

However, if it is determined that any appropriate fee is due, the Commissioner is hereby authorized to charge Deposit Account No. 50-0383 of Hughes Electronics Corporation, El Segundo, California.

This Information Disclosure Statement is not to be construed as a representation that a search has recently been made, that additional information material to the examination of this application does not exist, or that this citation constitutes prior art.

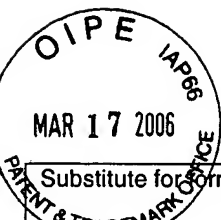
Respectfully submitted,

By:   
Georgann S. Grunebach, Reg. No. 33,179

The DIRECTV Group, Inc.  
RE/R11/A109  
P. O. Box 956  
El Segundo, CA 90245

Telephone No. (310) 964-4615

March 13, 2006



Substitute for Form PTO/SB/08A

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

Complete if Known

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>		Application Number	10/532,509
		371(c) Filing Date	April 25, 2005
		First Named Inventor	Ernest C. Chen
		Art Unit	2817
		Examiner Name	MOTTOLA, Steven J.
Date: March 13, 2006			
Sheet 1 of 1		Attorney Docket Number	PD-202131

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No.	Document Number Number-Kind Code	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute for form PTO/SB/08B  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>	Complete if Known	
	Application Number	10/532,509
	Filing Date	April 25, 2005
	First Named Inventor	Ernest C. Chen
	Art Unit	2817
Date: March 13, 2006		
Sheet 1 of 1	Attorney Docket Number	PD-202131

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
		MEYR, HEINRICH et al.; "Digital Communication Receivers: Synchronization, Channel Estimation, and Signal Processing"; 1998, John Wiley & Sons, Inc.; pages 212-213 and 217-218; XP002364874	
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		FANT, T. et al.; "Fourth-Power Law Clock Recovery with Prefiltering"; Proceedings of the International Conference on Communications (ICC); Geneva; May 23-26, 1993; New York; IEEE; US; Vol. 3; 23 May 1993; pages 811-815 XP010137089, ISBN: 0-7803-0950-2; Section I, Introduction	

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